Datasheet

Product Name	Recombinant Human Actin, alpha skeletal muscle(ACTA1)
Catalog Number	**AAA18527**
Expression host	*E.coli*
Product Info	N-terminal 6xHis-tagged
Storage Buffer	0.2 μm sterile filtered 10 mM Tris-HCl, 1 mM EDTA, pH 8.0, 50% glycerol
Storage	Store at -20℃, for extended storage, conserve at -20℃ or -80℃.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4℃ for up to one week.
Relevance	Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.
AA sequence	DEDETTALVCDNGSGLVKAGFAGDDAPRAVFPSIVGRPRHQGVMVGMGQKD SYVGDEAQSKRGILTLKYPIEHGIITNWDDMEKIWHHTFYNELRVAPEEHPTL LTEAPLNPKANREKMTQIMFETFNVPAMYVAIQAVLSLYASGRTTGIVLDSGD GVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREIVR DIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQP SFIGMESAGIHETTYNSIMKCDIDIRKDLYANNVMSGGTTMYPGIADRMQKEI TALAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWITKQEYDEAGPSIVHR KCF
References	"ACD toxin-produced actin oligomers poison formin-controlled actin polymerization." Heisler D.B., Kudryashova E., Grinevich D.O., Suarez C., Winkelman J.D., Birukov K.G., Kotha S.R., Parinandi N.L., Vavylonis D., Kovar D.R., Kudryashov D.S. Science 349:535-539(2015)

Certificate of Analysis

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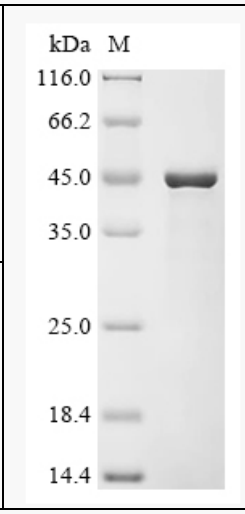
Batch Number	YC04609b1g5		
Nature	Human ACTA1-(AA 3-377)-**P68133**-Full Length of Mature Protein		
Purification	Affinity purified using IMAC		
Recommended Storage	Short term	2 to 8 ℃, one week from the date of receipt	
	Long term	-20 to -80 ℃, six months from the date of receipt	
Form	Liquid		
Date of detection	2023.08.07		
Test Items	**Specifications**		**Results**
Appearance	Clear Solution		pass
Concentration	0.1-5 mg/ml, by the Bradford Method.		0.59 mg/ml
Purity	≥90%, by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.		94%
Molecular Weight	Predicted band size: 45.8 kDa		Observed band size: 46 kDa

Electrophoretic parameters	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.
Aseptic Processing	0.2 μm sterile filtered
Endotoxin Level	Untreated
Activity	Not tested
Conclusion	pass